

**SSBT's College of Engineering & Technology, Bambhori, Jalgaon**  
(Included under section 2 (f) and 12(B) of the UGC Act, 1956)  
**Grade A (3.14) NAAC Accredited**  
**Department of Chemical Engineering**

# MOMENTUM

News Letter Vol. No. XXVII Jan.2025 – June.2025

## VISION

Today we carry the flame of quality education, knowledge and progressive technology for global societal development; tomorrow the flame will glow even brighter.

## MISSION

To provide conducive environment for preparing competent, value added and patriotic chemical engineers of integrity of par excellence to meet global standards for societal development.

### *Salient Features of Chemical Engineering Programme:*

- ♦ *Experienced, Qualified & Research Oriented Faculty*
- ♦ *Program Accredited Thrice by NBA*
- ♦ *Modern and Well Equipped Laboratories*
- ♦ *Excellent Results*
- ♦ *Research Facilities*
- ♦ *Departmental Library with Internet Facility*
- ♦ *Long Tradition of Gold Medalist in University Exams*
- ♦ *Consultancy for Chemical Engineering & Allied Processes*
- ♦ *Teacher Guardian Scheme*
- ♦ *Excellent Self-Study Material*



Students Placement

## Programme Educational Objectives (PEOs) of Chemical Engineering Department

### 1. Core Knowledge

To provide the quality education in the field of basic sciences, mathematics, chemical engineering and allied technologies to pursue higher education and research for global socioeconomic development.

### 2. Employment

To motivate the students for gaining value added knowledge and real world exposure by industrial training, visits and workshops.

### 3. Professional Competency

To build a chemical engineer of integrity and par excellence with professional and ethical values.

## Programme Outcomes (POs) of Chemical Engineering Department

**PO1 Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO2 Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**PO3 Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**PO4 Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**PO5 Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

**PO6 The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**PO7 Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**PO8 Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO9 Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO10 Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**PO11 Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**PO12 Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

## Programme Specific Outcomes (PSOs) of Chemical Engineering Department

**PSO1** How are you able to apply basic principles of science, mathematics and chemical engineering skills in interpreting and analyzing experimental data for societal development?

**PSO2** How are you able to design and provide solutions to problems in the development of chemical and allied industries?

**PSO3** How are you able to display multidisciplinary approach for providing techno-economical and eco-friendly solutions?

## Activities Conducted by Chemical Engineering Department in Academic Year 2024-25 (Term-II)

DATE	EVENT NAME	EVENT DESCRIPTION
22/02/2025	Milestone 2K25	A National Level Mega Event which involves Students Technical Paper Presentation and various events. Departmental faculty coordinated Paper Presentation and Art & Creativity event.
24/03/2025 To 29/03/2024	Add-On-Course	Chemical Engineering Department conducted one week (30 Hours) Add On Course on “Entrepreneurship and Essentials for Startup”, for the students of chemical engineering.
28/04/2025	Alumni Lecture	An online lecture of Alumni Dr. Payal N Bhautik, , Assistant Professor, Department of Chemical Engineering, Priyadarshini College of Engineering, Nagpur was conducted on 28/04/2025 on the topic “Biodegradable Plastics from Biomass”

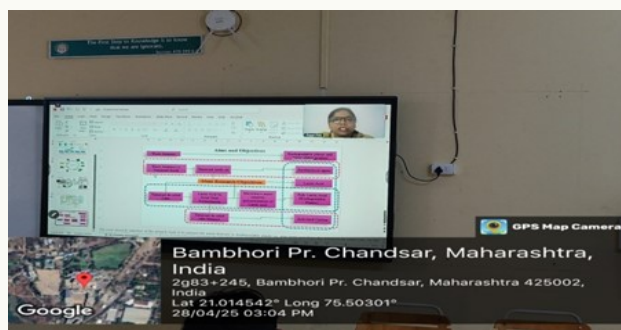
### Alumni lecture on “Biodegradable Plastics from Biomass”

An online lecture of Alumni Dr. Payal N Bhautik, Assistant Professor, Department of Chemical Engineering, Priyadarshini College of Engineering, Nagpur was conducted on the topic “Biodegradable Plastics from Biomass”, to enlighten students and faculty about sustainable alternatives to conventional plastics and promote awareness on the development and application of biodegradable plastics derived from biomass and also to highlight recent research developments and industrial applications in the field.

#### Objectives :

- To introduce the concept and necessity of biodegradable plastics in the current environmental context.
- To explore various biomass sources for producing eco-friendly plastics.
- To strengthen alumni-student connection and foster knowledge sharing.

Students and faculty of chemical engineering program attended the lecture. Students and faculty appreciated the clarity of the presentation and found the interaction engaging and motivating. Participants gained awareness of emerging sustainable technologies and eco-friendly materials. Strengthened alumni relations and encouraged more such expert engagements.



### Milestone 2K25 Art & Creativity Event







**B.E. Chemical Engineering Students Rank in KBCNMU May.2025 Exam. Sem.-VIII (2024-25)**

Merit No.	Name of the Student	CGPA
1	PATEL DEV VASANT	8.02
2	KAKUSTE PRATHAMESH SUNIL	7.80
3	PANJARDE RAHUL SUPADU	7.56
4	YEOLE RAHUL RAMESH	7.40
5	KOLI PREM SANJAY	7.28
6	BHOI JAGDISH RAGHUNATH	6.72

**T.E. Chemical Engineering Students Rank in KBCNMU May.2025 Exam. Sem.-VI (2024-25)**

Merit No.	Name of the Student	CGPA
1	THORAT ROHAN SANJAY	7.79
2	THORAT HARSHAL HARISH	7.62
3	GOHIL MEETKUMAR VINODBHAI	7.31
4	THAKARE YUTI SAROJKUMAR	7.24
5	PATIL DARSHAN RAMESH	6.75
6	SANDHANSHIV AAKASH DILIP	6.61

**S.E. Chemical Engineering Students Rank in KBCNMU May.2025 Exam. Sem.-IV (2024-25)**

Merit No.	Name of the Student	CGPA
1	PAWAR LOKESH BHOJUSING	6.81
2	PATIL RUSHIKESH BHARAT RAGHUNATH	6.31

**Gold Medalist**



Mr. Devendra Narendra Zambare (2020-2024) receiving Gold Medal by the auspicious hands of Hon'ble Vice Chancellor Prof. V. L. Maheshwari at "Thirty Third Convocation" ceremony held on 08 Jan. 2025 at Convocation Hall of Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.

**Students Placement 2024-25**

Student's Name	Post	Industry Name & Location
Mr. Prem Koli	Production Trainee Executive	Vilayat GIDC, Tal. Vagra, Dist. Bharuch, Gujarat
Mr. Jagdish Raghunath Bhoi	Production Trainee Executive	Vilayat GIDC, Tal. Vagra, Dist. Bharuch, Gujarat

## Add on Course “Entrepreneurship and Essentials Startup”

Add on Course on “Entrepreneurship and Essentials Startup” was conducted during 24 to 29 March, 2025 to equip students with essential entrepreneurial knowledge and skills required to start and manage a startup effectively.

### Objectives:

- To introduce the fundamentals of entrepreneurship and startup ecosystem.
- To develop entrepreneurial thinking and mindset among students.
- To provide insights into business planning, funding, and execution.
- To encourage innovation and problem-solving through real-world examples.
- To enhance confidence for venturing into startups and self-employment.

### Contents

- Introduction to Entrepreneurship
- Entrepreneurial mindset
- Idea generation technique.
- Idea validation and Market Research
- Business Model Canvas
- Financial planning Basics
- Developing marketing strategies
- Sales Techniques and Customer Acquisitions
- Legal formalities for start up
- Operational management
- Understanding funding option
- Pitching your startup

### Beneficiaries:

The course was attended by 28 students from the departments with interest in entrepreneurship and startups.

### Outcome

The students will Learn to develop clear business plans and Build communication, leadership, problem-solving, decision-making, risk management, and time-management abilities.





## Internships



Meet Gohil & Rohit Khallane during Internship At Lupin Limited Ankleshwar, Gujrat.



Rohan Thorat & Harshal Thorat during Internship at Sun Pharma Ankleshwar, Gujrat.



Yuti Thakare & Laxmi Rathod during Internship at Jalgaon Jilha Sahakari Dudh Utpadak Sangh Maryadit, Jalgaon.



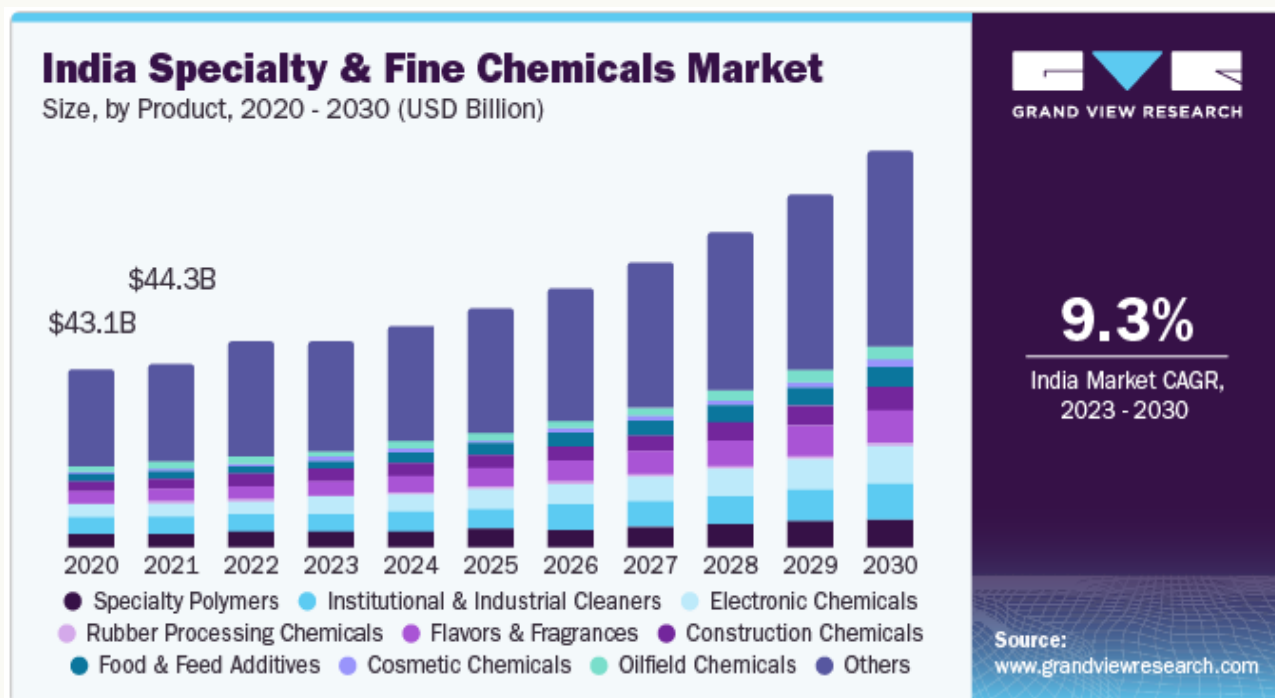
Aakash Sandanshiv during Internship at Nirmaan Aoudhyogik Rasayan Private Limited, MIDC, Parseoni, Nagpur.



Students of Chemical Engineering Department Tejas Patil, Lokesh Pawar, Varun Chavan & Dipesh Nikam during Internship with Foundation Batch Alumni Mr. Nisarg Suradkar (Vice President-Manufacturing - Pharmaceutical & Intermediates business) at Atul Ltd. Valsad, Gujrat.



## India Specialty & Fine Chemicals Market Size & Trends



### News Letter Committee

Faculty Members: Dr. V R. Diware (Editor)

Mr. V.P.Sangore (Content Organizer)

Student Coordinators : Laxmi Rathod (SE)

Yuti Thakare (TE)

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**Dr.V.R.Diware**  
Head, Chemical Engineering



**Prof. (Dr). G. K. Patnaik**  
Principal

